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1. (Currently amended) A bone fixation device, comprising:
 - one or more plates, each comprising:
 - a bone-contacting surface;
 - an upper surface opposite the bone-contacting surface; and
 - one or more fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, wherein the fastener-receiving aperture comprises a frustoconical inner surface; and
 - one or more fasteners having a head that has an ~~areuate~~ bulbous outer surface,
~~wherein the areuate outer surface of the head which~~ contacts the frustoconical inner surface of the fastener-receiving aperture when the one or more fasteners are received within the one or more fastener-receiving apertures.
2. (Currently amended) The bone fixation device according to claim 1, wherein the ~~areuate~~ bulbous outer surface comprises a spherical outer surface.
3. (Original) The bone fixation device according to claim 1, wherein the fastener comprises a screw.
4. (Cancelled)
5. (Currently amended) The bone fixation device according to claim 14, wherein the ~~areuate~~ bulbous outer surface of the screw head, ~~in relation to~~ forms a ring of contact with the frustoconical inner surface of the fastener-receiving aperture, ~~provides a ring of contact~~ during fixation of a bone with the device.

6. (Previously presented) The bone fixation device according to claim 1, wherein the frustoconical inner surface of the fastener-receiving aperture includes a major opening proximate the upper surface of the plate and a minor opening proximate the bone-contacting surface.
7. (Previously presented) The bone fixation device according to claim 1, wherein at least one of the fastener-receiving apertures comprises a major opening proximate the upper surface and a minor opening proximate the bone-contacting surface, wherein the major opening includes the frustoconical inner surface.
8. (Original) The bone fixation device according to claim 7, wherein the minor opening has a cylindrical inner surface.
9. (Withdrawn) The bone fixation device according to claim 3, wherein at least one screw comprises:
 - a head having an arcuate outer surface with a diameter greater than a diameter of the minor opening; and
 - an upper shaft having a diameter that matches the diameter of the minor opening.
10. (Withdrawn) The bone fixation device according to claim 9, wherein the upper shaft of the screw comprises:
 - a major component proximate the head of the screw, wherein the major component has a diameter that matches the diameter of the minor opening; and
 - a minor component proximate the lower shaft, wherein the minor component has a diameter that is less than the diameter of the minor opening.
11. (Currently amended) The bone fixation device according to claim 3, wherein at least one screw comprises:

a screw head having an bulbous arcuate outer surface and a diameter that is greater than a diameter of the minor opening; and
an upper shaft having a diameter that is less than the diameter of the minor opening.

12. (Previously presented) The bone fixation device according to claim 1, further comprising at least one locking arrangement configured to secure at least one of the fasteners within at least one of the fastener-receiving apertures.

13. (Previously presented) The bone fixation device according to claim 1, further comprising a plurality of locking arrangements configured to secure one or more of the fasteners within one or more of the fastener-receiving apertures.

14. (Original) The bone fixation device according to claim 1, wherein the plate is an anterior cervical plate.

15. (Withdrawn) The bone fixation device according to claim 1, wherein the plate comprises a plurality of connectable plates.

16. (Original) The bone fixation device according to claim 12, wherein the locking arrangement comprises:

a locking element; and
a locking aperture.

17. (Original) The bone fixation device according to claim 16, wherein the locking element is rotatable within the locking aperture.

18. (Original) The bone fixation device according to claim 16, wherein the locking element comprises a locking cover and a shaft.

19. (Original) The bone fixation device according to claim 16, wherein the locking element has an unlocked position that permits insertion of a screw into the fastener-receiving aperture and a locked position in which the locking cover at least partially obstructs the fastener-receiving aperture.
20. (Original) The bone fixation device according to claim 18, wherein the locking element comprises a removable screw having a threaded shaft, wherein the threads are configured to mate with a threaded interior of the locking aperture.
21. (Original) The bone fixation device according to claim 16, wherein the locking element comprises a cap having circumferential threads configured to mate with a threaded inner surface of the locking aperture.
22. (Original) The bone fixation device according to claim 1, wherein the plate is concave along a longitudinal axis and a transverse axis.
23. (Withdrawn) The bone fixation device according to claim 16, wherein:
 - the locking aperture comprises an inner surface having at least one groove; and
 - the locking element comprises:
 - a locking cover configured to secure the screw within the fastener-receiving aperture; and
 - a shaft comprising at least one projection configured to be received within the at least one groove.
24. (Withdrawn) The bone fixation device according to claim 23, wherein the locking arrangement has a locked and an unlocked position.
25. (Withdrawn) The bone fixation device according to claim 23, wherein one or more projections are configured to be received within one or more grooves when the locking element is in a locked position.

26. (Withdrawn) The bone fixation device according to claim 23, wherein the shaft of the locking element comprises a plurality of projections.
27. (Withdrawn) The bone fixation device according to claim 26, wherein the locking aperture comprises a plurality of grooves.
28. (Withdrawn) The bone fixation device according to claim 23, wherein the locking aperture comprises one or more horizontal grooves.
29. (Withdrawn) The bone fixation device according to claim 23, wherein the locking element further comprises one or more anchors configured to secure the locking element within the locking aperture.
30. (Withdrawn) The bone fixation device according to claim 29, wherein the anchor comprises a flange that extends radially outward from shaft of the locking element.
31. (Withdrawn) The bone fixation device according to claim 23, wherein the at least one projection is compressed radially inwards when the locking element is in an unlocked position and expands radially outward in one or more grooves when in a locked position.
32. (Withdrawn) The bone fixation device according to claim 1, further comprising at least one locking arrangement rotatably mounted to the one or more plates, the locking arrangement comprising:
 - at least one locking aperture within the upper surface of the plate, the locking aperture having an inner surface; and

- at least one locking element, comprising:
 - a locking cover configured to secure the one or more screws in the one or more fastener-receiving apertures; and
 - a shaft rotatably mounted within the bore;
 - a deformable member disposed between the shaft of the locking element and the inner surface of the locking aperture.

33. (Withdrawn) The bone fixation device according to claim 32, wherein the deformable member comprises a deformable cylinder

34. (Withdrawn) The bone fixation device according to claim 32, wherein the deformable member is constructed from ultra high molecular weight polyethylene (UHMWPE).

35. (Withdrawn) The bone fixation device according to claim 23, wherein the locking arrangement comprises:

- at least one locking aperture within the upper surface of the plate, the locking aperture having a threaded inner surface; and
- at least one locking element, comprising:
 - a locking cover configured to contact the upper surface of the plate; and
 - a threaded shaft rotatably mounted within the bore, wherein the threads of the base are configured to mate with the threads of the bore such that the base has a predetermined initial and final position;
 - a deformable member disposed between the base of the locking element and the inner surface of the bore.

36. (Withdrawn) The bone fixation device according to claim 35, wherein the locking arrangement has predetermined locked and unlocked positions.

37. (Currently amended) A bone fixation device, comprising:

- one or more plates, each comprising:
 - a bone-contacting surface;
 - an upper surface opposite the bone-contacting surface; and
 - one or more fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, wherein at least one fastener-receiving aperture comprises:
 - a major opening proximate the upper surface, wherein the major opening comprises a frustoconical inner surface; and
 - a minor opening proximate the bone-contacting surface; and
- one or more screws having a head that has an bulbous ~~areuate~~ outer surface, wherein ~~the areuate outer surface of the screw head is~~ positioned adjacent the frustoconical inner surface of the fastener-receiving aperture during fixation of a bone with the device.

38. (Original) The bone fixation device according to claim 37, wherein the minor opening comprises a cylindrical inner surface.

39. (Withdrawn) A bone fixation device, comprising:

- one or more plates, each comprising:
 - a bone-contacting surface;
 - an upper surface opposite the bone-contacting surface; and
 - one or more fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, wherein at least one fastener-receiving aperture comprises:

- one or more screws including a head having an arcuate outer surface with a diameter greater than a diameter of the minor opening, wherein the arcuate outer surface of the screw head is positioned adjacent the frustoconical inner surface of the fastener-receiving aperture during fixation of a bone with the device, the further including an upper shaft having a diameter that matches the diameter of the minor opening.

40. (Original) A bone fixation device, comprising:

- one or more plates, each comprising:
 - a bone-contacting surface;
 - an upper surface opposite the bone-contacting surface; and
 - one or more fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, wherein at least one fastener-receiving aperture comprises:
 - a major opening proximate the upper surface, wherein the major opening comprises a frustoconical inner surface; and
 - a minor opening proximate the bone-contacting surface, wherein the minor opening comprises a cylindrical inner surface; and
- one or more screws including a head having an arcuate outer surface with a diameter that is greater than a diameter of the minor opening, wherein the arcuate outer surface of the screw head is positioned adjacent the frustoconical inner surface of the fastener-receiving aperture during fixation of a bone with the device, an upper shaft having a diameter that is less than the diameter of the minor opening.

41. (Currently amended) A kit comprising:

- one or more plates, each comprising:
 - a bone-contacting surface;
 - an upper surface opposite the bone-contacting surface; and

- one or more fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, wherein the fastener-receiving aperture comprises a frustoconical inner surface; and
- one or more fasteners having a head that has an ~~arcuate~~areolatebulbous outer surface, wherein the fastener is configured to be received within the one or more fastener-receiving apertures; and
- one or more locking arrangements configured to secure the one or more fasteners in the one or more fastener-receiving apertures.

42. (Original) The kit according to claim 41, wherein the fastener comprises a screw.

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70. (Previously presented) A bone fixation device, comprising:
- a bone plate having a bone-contacting surface and an opposite upper surface, the bone plate defining an aperture that extends through the plate from the upper surface to the bone-contacting surface, the aperture including a first contact surface having a first cross-sectional configuration; and
 - a fastener having a fastener head, the fastener head including a second contact surface having a second, non-corresponding, cross-sectional configuration to that of the first cross-sectional configuration of the aperture;
 - wherein the second contact surface of the fastener head contacts the first contact surface of the aperture when the fastener head is positioned within the aperture of the bone plate.
71. (Previously presented) The device of claim 70, wherein the first contact surface of the aperture has a frustoconical configuration.
72. (Currently amended) The device of claim 70, wherein the second contact surface of fastener head has an arcuate configuration.
73. (Previously presented) The device of claim 70, wherein a ring-shaped line of contact is formed between the first contact surface of the aperture and the second contact surface of the fastener head.
74. (Previously presented) A bone fixation device, comprising:
- a bone plate having a bone-contacting surface and an opposite upper surface, the bone plate defining a plurality of fastener-receiving apertures extending through the plate from the upper surface to the bone-contacting surface, the fastener-receiving apertures having a first contact surface; and
 - a plurality of fasteners each having a head that is received within one of the fastener-receiving apertures, the heads of the fasteners having a second contact surface;
 - wherein the first and second contact surfaces have non-corresponding geometries such that a ring of contact is formed between the first contact surface of the plate and the second contact surface of the fasteners.